

What is Claimed is:

1. A device for controlling drying of laundry in a drum type washing machine comprising:

a motor for rotating a drum;

a motor sensing part for detecting rotation speed of the motor; and

a controlling part for controlling the motor sensing part to detect the rotation speed of the motor during a spinning time period, and setting a drying cycle time period according to the detected rotation speed.

2. The device as claimed in claim 1, wherein the controlling part compares the detected rotation speed to preset rotation speeds.

3. The device as claimed in claim 2, wherein the controlling part has drying time periods relevant to the set rotation speeds stored therein.

4. The device as claimed in claim 2, wherein the controlling part detects the set rotation speed the same with a maximum value of the detected rotation speed from the set rotation speeds, and determines the drying time period relevant to the detected set rotation speed as the drying cycle time period.

5. The device as claimed in claim 2, wherein the controlling part compares the detected maximum value of the rotation speed to the set rotation speeds in an order of a maximum value thereof to a minimum value thereof.

6. The device as claimed in claim 1, wherein the controlling part sets the drying cycle time period the longer as the detected rotation speed is the lower, and vice versa.

7. A device for controlling drying of laundry in a drum type washing machine comprising:

a motor for rotating a drum;

a motor sensing part for detecting rotation speed of the motor;

a fan for blowing air into the drum;

a drying heater for heating the air from the fan; and

a controlling part for controlling the motor sensing part to detect the rotation speed of the motor during a spinning time period, and setting a drying cycle time period according to an amount of laundry and the detected rotation speed.

8. The device as claimed in claim 7, wherein the controlling part compares the detected maximum value of the rotation speed to the set rotation speeds in an order of a maximum value thereof to a minimum value thereof.

9. The device as claimed in claim 8, wherein the controlling part determines the drying time period relevant to the set rotation speed as the drying cycle time period if the maximum value of the detected rotation speed is equal to or higher than the set rotation speed.

10. The device as claimed in claim 7, wherein the controlling part sets the drying cycle time period the longer as the amount of the laundry is the greater.

11. A method for controlling drying of laundry in a drum type washing machine, comprising the steps of:

- (a) detecting a rotation speed of a motor during a spinning cycle;
- (b) setting a drying cycle time period according to the detected rotation speed; and
- (c) drying the laundry for the set drying cycle time period.

12. The method as claimed in claim 11, wherein the step of setting a drying cycle time period according to the detected rotation speed includes the step of comparing the detected rotation speed to set rotation speeds.

13. The method as claimed in claim 12, wherein the step of setting a drying cycle time period according to the detected rotation speed further includes the steps of;

detecting one of the set rotation speeds identical to a maximum speed of the detected rotation speed, and

determining a drying time period relevant to the detected set rotation speed as the drying cycle time period.

14. The method as claimed in claim 12, wherein the step of setting a drying cycle time period according to the detected rotation speed further includes the steps of;

comparing the maximum value of the detected rotation speed to the set rotation speeds in an order of a maximum value to a minimum value.

15. The method as claimed in claim 14, wherein the step of setting a drying cycle time period according to the detected rotation speed further includes the steps of;

determining the drying time period relevant to the set rotation speed as the drying cycle time period if the maximum value of the detected rotation speed is equal to or higher than the set rotation speed.

16. The method as claimed in claim 11, wherein the step of setting a drying cycle time period according to the detected rotation speed further includes the steps of;

setting the drying cycle time period the longer as the detected rotation speed is the lower, and vice versa.

17. A method for controlling drying of laundry in a drum type washing machine, comprising the steps of:

- (a) detecting an amount of the laundry;
- (b) detecting a rotation speed of a motor during a spinning cycle;
- (c) setting a drying cycle time period according to the detected amount of the laundry and the detected rotation speed; and
- (d) drying the laundry for the set drying cycle time period.

18. The method as claimed in claim 11, wherein the step of setting a drying cycle time period according to the detected amount of the laundry and the detected rotation speed includes the steps of;

setting a drying time period according to the amount of laundry, and
adjusting the set drying time period according to the rotation speed.

19. The method as claimed in claim 18, wherein the step of setting a drying time

period according to the amount of laundry includes the step of;

- setting the drying cycle time period the longer as the amount of laundry is the grater,
and vice versa.

20. The method as claimed in claim 18, wherein the step of adjusting the set drying time period according to the rotation speed includes the step of;

setting the drying cycle time period the longer as the as the maximum value of the detected rotation speed is the smaller, and vice versa.